

D&D Subgroup Highlights
December 8, 1998

This meeting was held in the ETB, Spokane River Room starting at 9:00am.

N-Basin Deactivation Documentation

Paul Pak, DOE, and Tom Kisenwether, BHI talked about the documents being prepared that detail the work done on N-Basin deactivation. In particular a CD was made that presents information on the tools used to clean up N-Basins. Tom reviewed the CD on a portable computer for the subgroup. The CDs are being sent to many groups throughout the country and shown at presentations such as Waste Management and TIE conferences. In addition, to the Toolbook CD other documents are also being produced including an ALARA report and a lessons learned document. The Toolbook CD has 138 pages of data on 40 to 80 individual tools. The tools were grouped into the following 5 types of tools: vacuum tools, remote-handling tools, waste packaging tools, waste containers, and underwater cameras. For each individual tool on the CD the following information is presented: a description of the tool and background on how it was used, a schematic or graphic with design pictures, photos of it in use, and, in some cases, a video clip of the tool in operation. Water clarity was a major problem faced by the engineers and experts were called in to help deal with this issue. In addition, there was a need to determine how to package the waste for ERDF disposal. The engineers who worked on this project will meet with K-Basin cleanup engineers to transfer knowledge and experience gained. The subgroup thought this CD would make a good STCG Management Council presentation also.

D&D Subgroup FY99 Work Plan

Greg Berlin reported that he has received a few comments and changes to the draft work plan and has incorporated these. Greg then reviewed each mission statement element and discussed the changes made to the draft work plan. Element #1 deals with working as a team and promoting technology improvements at Hanford. This includes bringing issues from the subgroup to the Management Council for resolution. The subgroup wants to have more representatives from the tribes, EPA, and HAB attend our meetings. Detlev Wegener said he would invite tribal representatives to the subgroup meetings. The intent is to broaden stakeholder representation on the D&D Subgroup.

The second mission statement element deals with determining the S&T needs by focusing on the baseline. One suggestion was to have someone from the K-Basin project on the subgroup to make sure needs in this area are considered for inclusion in our list. There were no changes to Element #3. For Element #4 one bullet dealing with input to an STCG database was eliminated as there is no such database at this time. For Element #5 one bullet was rewritten to emphasize

working with projects to understand and help eliminate barriers. Another bullet was added encouraging more field cognizance and presence by S&T personnel and subgroup members. Element #6 had one new bullet added that deals with keeping the S&T needs list on the web up-to-date rather than changing them once a year. Keeping the list current and updating their status with the subgroup was seen by the subgroup as necessary. Having a technology exchange with Rocky Flats on glove box work and decommissioning of structures was discussed. Element #7 deals with input to decision makers on the S&T needs and our accomplishments. One bullet was changed to emphasize the need to increase the dissemination of Hanford's D&D success stories. Jim Goodenough will produce four viewgraphs highlighting the work plan for the STCG Management Council meeting presentation on December 16, 1998.

Waste Management 99 Conference

Jim Goodenough will be co-chairing a session at this conference which is February 28 – March 4, 1999 in Tucson, Arizona. Jerry White, BHI, will also be chairing a session. The program for this conference will be coming out soon.

CDI Update

Kim Koepler, BHI, reviewed work underway on the Canyon Disposition Initiative (CDI). At the present time technologies are being tested to detect liquids in pipes and tanks. Sue Garrett, PNNL, is also working on this task. Vendors are coming in to demonstrate their technologies on-site. The three types of detection systems tested are radiography, thermography, and ultrasonics. The results show that radiography is good but expensive; thermography is good on tanks but not on pipes; and ultrasonic results are difficult to read and interpret. A report is being written on the results of the tests. FETC and BHI are working together to procure the liquid detection devices.

Equipment that is on the canyon deck and galleries are being examined now. Next year work will start in the hot cells, which will require remote technologies. The Robotics Crosscutting Focus Area is sending \$250K in January but there will be no more funding from the DDFA this FY. So far the DDFA has contributed \$600K to the CDI effort. There may be funding from FETC procurement to obtain a particular technology (\$200K to \$250K total). In addition, the AEA may purchase a technology to demo here and we would receive \$120K for the demo work.

MSU Pipe Cleaning System Information

Shannon Saget introduced and played a video that described and showed a new system for cleaning pipes that researchers at Mississippi State University have developed. Shannon received the video along with further information on the

new acoustic system from MSU after attending a presentation at Xchange 97. The information will be sent out to all subgroup members.

ASTD Update

Dennis Brown stated that DOE has decided to fund all 42 proposals but not fully. It is possible that they could be funded at a 50% level in FY99 with the rest next FY. DOE Sites will have the option of funding some this year and not others. Hanford has decided to fund the In Situ Redox and the Robotics for Hot Cells proposals this year but the paperwork for these need to be sent to DOE this week. Then 25% of the funding would be here in the January Financial Plan and a deployment plan would need to be completed and sent in by the end of January for each project. After that the rest of the funding would arrive in the February Financial Plan. We need to get our deployment plan and other paperwork sent in early to make sure we get all our money. There may not be any funding next year for ASTD projects. We are also working with the Nevada Test Site on the portable laser ASTD proposal that they submitted.

EM Integration Pilot Projects Update

Jim Goodenough attended the D&D Program Area Integration Team meeting in November where the group began to consider projects to fund. The EM-60 Deactivation PAIT is further along and Dave Evans from DOE-RL is on that team. Only one EM-40 proposal has been developed for manufacturing and testing T-100 burial boxes. This ties in with the metal recycle program out of ORNL. Jim will have information sent out to all subgroup members that he received at this meeting. This information includes a list of potential projects or opportunities to be funded by the D&D PAIT. One opportunity on this list is the entombment option savings demonstrated by CDI. All opportunities will be developed into proposals for review by the PAIT. The Big 5 field managers will then fund some of these projects. The projects are to address issues that cut across DOE Sites and EM programs and are to involve stakeholders. They are to look at waste streams in the DOE complex to be treated rather than programs to be funded.

Science and Technology Needs Process

A letter will be issued soon outlining this years S&T needs process at Hanford. The process is scheduled to start in January and end on September 1, 1999. The overall schedule has been moved up by one month. Our needs that were developed last year have been input to the DOE Complex database at DOE-HQ. There will be at least two new fields this year one of which will tie the PBS with the needs database.

National Decommissioning Committee Meeting

Jim Goodenough attended this meeting at SRS on November 17-19, 1998. Jim reviewed the highlights from the meeting and they will be sent to all subgroup members. The theme of this meeting was "Integration and Outreach." A lot of the meeting time was spent on the new PAITs as well as site decommissioning activities. An update was also given on external regulations that apply to D&D. Paul Hart, of the DDFA, gave a presentation on the Technology Information Exchange Conference and other DDFA information. Jim presented information on Hanford's CDI, C-Reactor interim safe storage project, and D&D Certification Program at the meeting. One of the best presentations was on benchmarking D&D procurement best practices at four commercial nuclear power plants. The lessons learned from the study were written up in a DOE report and Jim distributed a copy of Appendix A from this study, which summarized the findings. The D&D PAIT may fund a pilot project implementing these lessons learned.

D&D Subgroup Meeting Attendees 12/08/98

Greg Berlin	FDH Tech Mgt	372-4352
Bill Bonner	PNNL	372-6263
Sue Garrett	PNNL	372-4266
Jim Goodenough	US-DOE	376-0893
Tom Kisenwether	BHI	372-9716
Kim Koegler	BHI	372-9294
Charlie Kronvall	BWHC	376-9601
Tina Masterson-Heggen	Ecology	736-5701
Paul Pak	DOE	376-4798
Shannon Saget	DOE-STP	372-4029
Steve Weakley	PNNL	372-4275
Det Wegener	FDH-Hammer	373-2021